

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-12 (Cancelled).

Claim 13 (New): A mobile station which transmits a downlink quality information to a base station, comprising:

a receiving unit configured to receive a transmitting cycle which determines transmitting timing of the downlink quality information; and

a transmitting unit configured to transmit the downlink quality information to the base station in accordance with the transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, said transmitting unit configured to transmit the response signal associated with high-speed packet data transmitted to the mobile station through a high-speed packet data channel,

wherein the transmitting cycle is selected based on a set including 0, 1, at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having a multiple relationship and being equal to or larger than the two positive integers having no multiple relationship.

14. (New) A communication method of transmitting a downlink quality information to a base station, comprising:

receiving a transmitting cycle which determines transmitting timing of the downlink quality information; and

transmitting the downlink quality information to the base station in accordance with the transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, and transmitting the response signal

associated with high-speed packet data transmitted to the mobile station through a high-speed packet data channel,

wherein the transmitting cycle is selected based on a set including 0, 1, at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having the multiple relationship and being equal to or larger than the two positive integers having no multiple relationship.

15 (New) A base station which receives a downlink quality information from a mobile station, comprising:

a transmitting unit configured to transmit a transmitting cycle which determines transmitting timing of the downlink quality information; and

a receiving unit configured to receive a downlink quality information transmitted by the mobile station in accordance with the transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, and the receiving unit configured to receive the response signal associated with high-speed packet data transmitted to the mobile station through a high-speed packet data channel,

wherein the transmitting cycle is selected based on a set including 0, 1, at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having the multiple relationship and being equal to or larger than the two positive integers having no multiple relationship.

16. (New) A communication method of receiving downlink quality information from a mobile station, comprising:

transmitting a transmitting cycle which determines transmitting timing of the downlink quality information, and

receiving a downlink quality information transmitted by the mobile station in accordance with the transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, and receiving the response signal associated with high-speed packet data transmitted to the mobile station through a high-speed packet data channel,

wherein the transmitting cycle is selected based on a set including 0, 1, at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having the multiple relationship and being equal to or larger than the two positive integers having no multiple relationship.

17. (New) A mobile station comprising:

a receiver for receiving a high speed packet data transmitted from a base station; and
a transmitter for transmitting a quality information related to a downlink based on a transmitting cycle which determines transmission timing of the quality information, and

wherein the transmission timing of the quality information is controlled by the transmitting cycle selected based on a set including 0, 1, and at least two positive integers having no multiple relationship with respect to each other.

18. (New) The mobile station according to claim 17, comprising:

an uplink including a control channel on which is transmitted by a response signal corresponding to a result of receiving the high speed packet data transmitted on the high speed packet data channel, and

wherein the transmitter is configured to transmit the quality information on the control channel.

19. (New) A base station comprising:

a transmitter configured to transmit high speed packet data to a mobile station on a high speed packet data channel for high speed packet data transmission; and

a receiver configured to receive a quality information related to a downlink transmitted from the mobile station,

wherein a transmission timing of the quality information from the mobile station is controlled by a transmitting cycle, and the transmitting cycle is selected based on a set including 0, 1, and at least two positive integers having no multiple relationship with respect to each other.

20. (New) The base station according to claim 20, comprising:

an uplink including a control channel on which the mobile station transmits a signal for a response to the high speed packet data transmitted on the high speed packet data channel, and wherein the receiver is adapted to receive and read the quality information on the control channel.

21. (New) A communication system comprising:

a base station; and

a mobile station configured to transmit quality information related to downlink to the base station based on a transmitting cycle which determines transmission timing of the quality information,

wherein transmission timing of the quality information is controlled by the transmitting cycle selected based on the set including 0, 1, and at least two positive integers having no multiple relationship with respect to each other.

22. (New) A transmission control method comprising:
receiving a down link signaling from a base station to a mobile station;
transmitting a quality information related to a downlink based on a transmitting cycle which determines transmission timing of the quality information, and
wherein transmission timing of the quality information is controlled by the transmitting cycle selected based on a set including 0, 1, and at least two positive integers having no multiple relationship with respect to each other.

23. (New) A mobile station which transmits a downlink quality information to a base station, comprising:

a receiving unit configured to receive high speed packet data transmitted via a high-speed packet data channel from the base station; and

a transmitting unit configured to transmit the downlink quality information to the base station in accordance with a transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, said transmitting unit configured to transmit the response signal associated with the high speed packet data received by the receiving unit,

wherein the transmitting unit transmits the downlink quality information under a timing control based on the transmitting cycle included in a set which includes 0, 1, at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having the multiple relationship and being equal to or larger than the two positive integers having no multiple relationship.

24. (New) A communication method of transmitting a downlink quality information to a base station, comprising:

receiving high speed packet data transmitted via a high speed packet data channel from the base station, and

transmitting the downlink quality information to the base station in accordance with a transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, and transmitting the response signal associated with high-speed packet data transmitted to the mobile station through a high-speed packet data channel,

wherein a transmission of the downlink quality information is controlled based on the transmitting cycle included in a set which includes 0, 1, at least two positive integers having a multiple relationship with respect to each other and being equal to or larger than the two positive integers having no multiple relationship.

25. (New) A base station which receives a down link quality information from a mobile station the base station, comprising:

a transmitting unit configured to transmit a high speed packet data via a high-speed packet data channel to the mobile station;

a receiving unit configured to receive the downlink quality information transmitted by the mobile station in accordance with a transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, and the receiving unit configured to receive the response signal associated with high-speed packet data transmitted to the mobile station through a high-speed packet data channel,

wherein the receiving unit receives the downlink quality information which is transmitted from the mobile station under a timing control based on the transmitting cycle

included in a set which includes 0, 1, at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having the multiple relationship and being equal to or larger than the two positive integers having no multiple relationship.

26. (New) A communication method of receiving downlink quality information from a mobile station, comprising:

transmitting a high speed packet data via a high-speed packet data channel to the mobile station,

receiving the downlink quality information transmitted by the mobile station in accordance with a transmitting cycle through a control channel being used by the mobile station for transmitting a response signal to the base station, and receiving the response signal associated with high-speed packet data transmitted to the mobile station through a high-speed packet data channel,

wherein a transmission of the downlink quality information is controlled based on the transmitting cycle included in a set which includes 0, 1, at least two positive integers having no multiple relationship with respect to each other, and at least two positive integers having the multiple relationship and being equal to or larger than the two positive integers having no multiple relationship.